DaySequerra

dts™ Neural Technologies

5.1 Surround Audio Processor

MultiMerge2 | User Manual

Welcome

Thanks for purchasing the DaySequerra MultiMerge2. The DaySequerra MultiMerge2 enables broadcasters to smooth the transition from stereo to 5.1 surround sound by providing viewers with a 24/7 surround sound experience. We design and build all of our DaySequerra products to be completely reliable and easy to use, so you can concentrate on producing great sounding broadcasts, not struggling with complicated equipment or difficult to use product manuals.

While the MultiMerge2 has been designed to be straightforward to use, we do suggest that you spend a few minutes familiarizing yourself with the features and operational functions that are contained in this manual.

DaySequerra has been building broadcast quality products since 1989. The technology developed for the MultiMerge2, and all of our products, has evolved through a process of user feedback, extensive listening, field-testing and careful refinement.

In the event that you encounter any technical or operational difficulties with this or any DaySequerra product, please feel free to contact us at 856-719-9900. Our office hours are from 9 to 5 ET, Monday through Friday. Or you can email your questions to: **info@daysequerra.com**.

Also, please remember to visit our website **www.daysequerra.com** for warranty registration and the latest DaySequerra product information.

We have worked hard to ensure that your DaySequerra MultiMerge2 will reliably serve you for years to come. With a modular design and upgradeable firmware, your new unit is easy to install and use right out of the box.

We sincerely hope our products help you achieve a new level of excellence in your work!

David V. Day
and the **DaySequerra Team**

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MultiMerge2 Key Features

- Simultaneous processing for 5.1 main and 2.0 auxiliary stereo inputs
- UpMix HD algorithm for near-discrete 5.1 performance from stereo
- Auto-UpMix provides full-time 5.1 output from mix of stereo and 5.1 content input
- Mute-less 5.1 pass-through to guarantee critical audio is never lost, such as center channel dialog
- DTS Neural Loudness Control and ITU-R BS.1770/1 Loudness Measurement – ensures CALM compliance
- EAS/CAP input for transmission of Emergency Alert messages
- Ethernet interface for loudness-compliance logging and field updates
- Optional HD/SDI input for 8 de-embedded audio channels from SDI group 1 or 2

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Specifications subject to change.
MultiMerge2 Revision A.

Important Safety Information

- Indoor use only. Not for use in wet or damp environments.
- Maximum Relative Humidity: <80%
- Class I Equipment (grounded type)
- Electrical rating: 100-120/220-240V~50-60Hz 25W max
- AC Mains supply voltage fluctuations are not to exceed ±10% of the nominal voltage
- Operations temperature range -40°C to 70°C
- Maximum altitude: 3000m (9843ft)
- Equipment suitable for continuous operation
- Weight: 3.2kg (7lbs) equipment only

Important Note: Please connect your MultiMerge2 to an uninterruptible power supply (UPS) to provide other protection against power surges and low-voltage conditions.

Service Information

The DaySequerra MultiMerge2 contains no user serviceable components inside the unit. Please contact DaySequerra for repair and upgrade information. In the event that your unit needs to be returned to the factory, contact us for a return authorization number. **Please visit www.daysequerra.com and register your new MultiMerge2 so we can keep you informed of the latest hardware and software updates.**

The lightning flash with arrowhead symbol is intended to alert the user to the presence of un-insulated "dangerous voltages" within the product's enclosure that may be of a sufficient level to cause harm.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PROFESSIONAL.

The exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance instructions within the product literature.

Exposed portions of the power supply assembly are electrically live. To reduce risk of electric shock, the power cord must be disconnected when the power supply assembly is removed. For continued protection against electric shock, a correctly wired and grounded (earthed) three-pin power outlet must be used. Do not use a ground-lifting adapter and never cut the ground pin on the three-prong plug. The ground terminal of the power plug is connected directly to the chassis of the unit.

Technical Specifications

INPUTS	3 AES-3 PCM inputs for 5.1 Surround 1 AES-3 PCM input for 2.0 AUX Stereo 1 AES-3 PCM input for EAS/CAP 1 AES-3/AES-11 input for external AES sync 1 HD/SDI Input with option
OUTPUTS	3 AES-3 PCM outputs for 5.1 Surround 1 AES-3 PCM output for 2.0 AUX Stereo 1 HD/SDI Pass-through output with option
AUDIO INPUT & OUTPUT INTERFACE	AES/EBU, 75 ohm, unbalanced BNC HD-SDI input for SMPTE 259M, SMPTE 292M, SMPTE 424M, ITU-R BT.656 and ITR-R BT.601 input with option
LOUDNESS MEASUREMENT & CORRECTION	ITU-R BS.1770/1 Industry Standard Loudness Measurement DTS Neural Loudness Measure Leq (a), Leq(b), Leq(c) and Leq(m)
SAMPLE RATE	32 kHz to 96 kHz, 24-bit
LATENCY	38ms UpMix HD High Latency 0ms Lt/Rt DownMix 48ms DTS Neural Loudness Control <6ms for Hardware Interface
GPIO	Opto-isolated DB-9 female connector 0-5VDC TTL
ETHERNET	10/100 Base-T for field software updates, logging and remote control
DIMENSIONS & WEIGHT	1 RU, 19” (482mm) W x 8” (203mm) L x 1.75” (44mm) H 7lbs. (3.2kg)
ENVIRONMENTAL	Convection cooled. Operating: 0 to 60 degrees C
REGULATORY	North America: Designed to comply with FCC Class A, Part 15 Europe: LV Directive 73/23/EEC and EMC Directive 89/366/ECC, CE Mark (EN55022 Class A, EN55024) RoHS and WEEE compliant
POWER SUPPLY	Dual redundant Auto-sensing 100-240V, 50-60Hz EMI suppressed male IEC320 connector
OPTIONS	HD/SDI input for 8 de-embedded audio channels from SDI group 1 or 2
WARRANTY	One year, limited parts and labor
NOTES	[1] Does not include added latency of any options

*Specifications are subject to change without notice to upgrade the performance of our products.

FCC Part 15 Regulatory Statement

This equipment has been tested and found to comply with the limits for Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction's manual, may cause interference to radio communications. Operation of this equipment in a residential area is likely to cause interference in which case the user will be required to correct the interference at their own expense. The user is cautioned that changes and modifications made to the equipment without approval of the manufacturer could void the user's authority to operate this equipment. The user should use only shielded and/or grounded cables to combat sources of interference.

Environmental Preservation Efforts

This equipment has been designed and built by DaySequerra corporation to give many years of trouble free service and is backed by our three year warranty and commitment of providing the best customer support. When the time comes to retire your product from service, it should be disposed of in accordance with local codes or ordinances. Do not discard with household or commercial waste.

DaySequerra products are manufactured with the environment in mind. The directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (2002/95/EC) restricts the use of six specific hazardous materials in the manufacture of various types of electronic and electrical equipment. Following this directive prevents these toxic substances from entering our environment after disposal.

Introduction

The DaySequerra MultiMerge2 enables broadcasters to smooth the transition from stereo to 5.1 surround sound by providing viewers with a 24/7 surround sound experience. With MultiMerge2 inline, 5.1 original content is passed unaffected to the viewer while original stereo content is upmixed to a 5.1 surround sound image providing the viewer with a consistent surround experience. The transition between 5.1 and stereo occurs seamlessly without the need of operator intervention. By offering a 24/7 5.1 signal, AC3 meta data will never need to transition between 2/0 and 3/2 mode avoiding the risk of audio 'clicks', 'pops', and dropouts.

The DTS-Neural Audio patented approach to stereo UpMix avoids taking 'artistic license' with content by placing audio exactly where it would be heard in a professional LEDE (Live End Dead End) listening environment. For example, mono or pan-pot stereo will image in front of the listener where as stereo containing depth information, or LtRt encoding, will surround the listener.

The MultiMerge can be used in combination with the DTS-Neural Surround DownMix to in order to pass 5.1 through stereo only facilities thus, eliminating the need for costly Master Control upgrades.

Installation

Immediately upon receiving your MultiMerge2, please make a careful inspection for any shipping damage. If damage is found or suspected, please notify the carrier at once and then contact your dealer. MultiMerge2 is shipped in one carton, which contains: the MultiMerge2 unit, an AC power cable, and this Users Manual.

We strongly encourage you to save the shipping carton and shipping materials supplied with your MultiMerge2. They are specially designed to properly protect your MultiMerge2, and in the event that you need to return it for service, only these OEM shipping materials can ensure its safe return to our factory.

We provide a limited 1-year warranty on all of our products; however, if you don't register your unit, it is impossible for us to contact you to notify you when important software upgrades become available.

Please take a few minutes to complete the warranty registration form on our website, www.daysequerra.com.

Rack Mount Installation

The MultiMerge2 chassis has four rack mounting holes and has been designed to fit in a standard 1RU space. Plastic 'finishing' washers are recommended to protect the painted surface around the mounting holes. Locate the air vents on each side of the unit, and be sure to keep them clear so the unit may have adequate ventilation.

Power Connection

The AC power cable supplied with MultiMerge2 must be connected from the IEC320 power entry module to an AC mains outlet with a functional earth ground connection. For protection against electric shock and electro-magnetic interference, do not plug the power cable into a ground lifting adapter or remove the cable's grounding pin. If in doubt, please consult a qualified electrician.

Please connect MultiMerge2 to an uninterruptible power supply (UPS) to protect against power surges and low-voltage conditions. MultiMerge2 may be combined with other devices on the output of the UPS as long as the total load is within the UPS' capacity. Consult your UPS manual for details.

MultiMerge2 will automatically power up when AC power is applied. If AC line power is lost or momentarily interrupted, MultiMerge2 will revert to its previous state.

Front Panel Controls and Indicators

Meters

INPUT LEVELS - Eight 10-segment multi-colored LED meters display the audio level for each channel of the inbound audio stream.

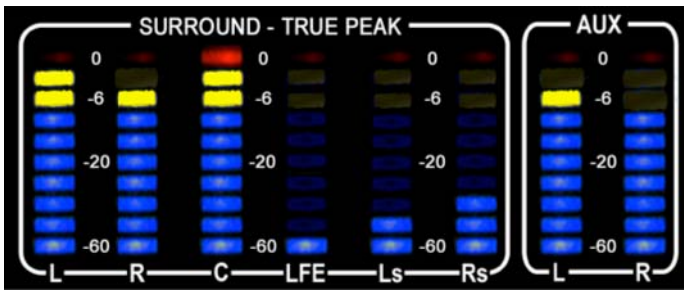


Figure 1. LED Meters on Multimerge2

INPUT LEVELS – LED display shows current amplitude of input signal from -60dB to 0dB across all active channels. Unused channels will not light the display.

L - Left (AES Input 1)
R - Right (AES Input 2)
C - Center (AES Input 3)
LFE - Low Frequency (AES Input 4)
Ls - Left Surround (AES Input 5)
Rs - Right Surround (AES Input 6)
L - Stereo Left (AES Input 7)
R - Stereo Right (AES Input 8)

Home Screen

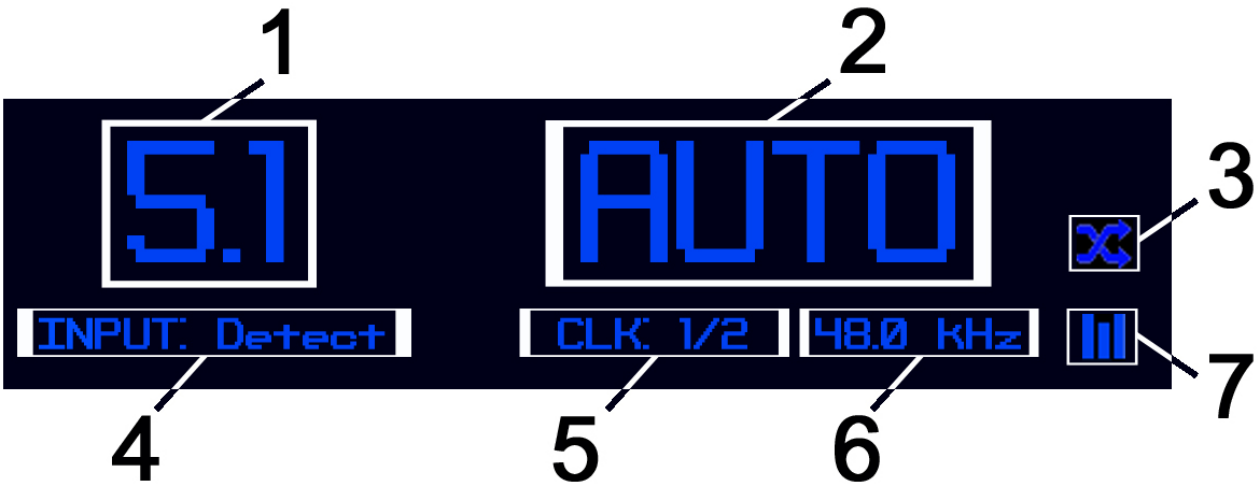


Figure 2. Home Screen on MultiMerge2.

When you power on MultiMerge2, the display should look similar to the one pictured in Figure 2. Each field is dynamic and will show status or configured settings. Pressing the HOME key again while at this screen enters home screen selection mode that allows quick access to key functions.

1. Source indicator displays source configuration, read only.
2. UpMix Mode: Selects Auto UpMix or forced pass-thru.
3. MutltiMerge2 Menu Icon will navigate you to the MultiMerge2 menu.
4. Input Source Select: Sets the desired source for the audio.
5. Clock Source Select: Defines location to recover the clock signal
6. Sample Rate: Detected or selected sample rate.
7. Meter Toggle Icon: Toggles the display of Bargraph LED Meters.

Status Indicators

ALARM - Red LED indicator illuminates when an alarm has been triggered

INPUT METER - Green LED indicator illuminates when Multimerge2 is displaying an inbound signal on the LED Bargraph

OUTPUT METER - Green LED indicator illuminates when Multimerge2 is displaying an outgoing signal on the LED Bargraph

EAS ACTIVE - Red LED indicator illuminates when Multimerge has an active EAS

Display and Controls

VACUUM FLUORESCENT DISPLAY - A Multi-function display will indicate current status of the unit and programming menus.

SELECTION KNOB - A stepping rotational knob is used to select values while in the menu system. To enter the menu, simply rotate the knob in any direction while MultiMerge2 is on the HOME screen.

ENTER KEY - Used to enter a menu or confirm a selection.

HOME KEY - A press of this button will return MultiMerge2 to the home screen or enter home screen selection mode.

BACK KEY – This key will return to a previous menu, or if you are entering a value, exit the field and return the value to the last programmed state.

HEADPHONE JACK – Accepts any headphone or monitor that has a 3.5mm stereo mini-jack connection. Volume control is software based, adjusted within the home screen selection mode.

Rear Panel

AES INPUTS - Four 75Ω BNC connectors will accept an AES3 digital audio stream with 1 AES-3/AES-11 input for external AES sync and 1 AES-2 PCM input for EAS/CAP. *(1 HD/SDI Input is available as an option)*

- 1/2 - Left and Right Channel
- 3/4 - Center and LFE
- 5/6 – Left and right Surround
- 7/8 – Aux/Stereo

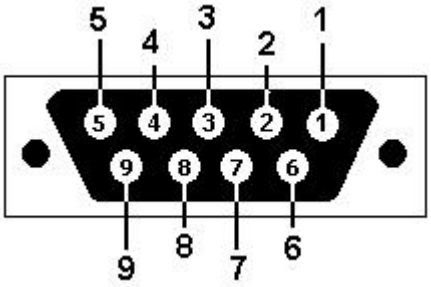
AES OUTPUTS - Four 75Ω BNC connectors output the AES3 digital audio stream. *(1 HD/SDI Pass-through output with option)*

- 1/2 - Left and Right Channel
- 3/4 - Center and LFE
- 5/6 – Left and right Surround
- 7/8 - Aux/Stereo

The AES-3id-1995/SMPTE 276M standard dictates a 75Ω unbalanced connection and requires proper termination. The termination should occur at the destination of the signal (that is, on the inputs to Multimerge2). If the loop-through BNC connectors are not feeding additional equipment, terminate each of these with a standard 75Ω terminator. Like other inputs, HD/SDI signal should be terminated.

HD/SDI - Optional (SMPTE 292M/229M) with measurement and mapping of all 16 SDI audio channels

ALARM – A Female DB-9 connection that allows MultiMerge2 to be monitored externally.



DB-9 Female Port
on MultiMerge2 Rear Panel

Pin	Signal
1	Output Relay 1 N.O.
2	Relay 1 Common
3	No Connection
4	No Connection
5	No Connection
6	Output Relay 2 N.O.
7	Relay 2 Common
8	No Connection
9	No Connection

Output 1: Relay 1 is Normally Open. Upon a hardware failure (i.e. Power Supply or Internal Communications Failure), the relay will close. When the failure is remedied, the relay will open.

Output 2: Relay 2 is Normally Open. Upon an AES lock loss failure, this relay will close. When the failure is remedied, the relay will open.

Input 1: Toggle 5.1 output mode value

Input 2: Toggle 2.0 ST output mode value

Input 3: Toggle UpMix mode

Input 4: Triggers EAS Mode

NETWORK - Used for logging or to update MultiMerge2's firmware. To connect directly to a PC without use of a network switch or hub, a crossover cable is required. Firmware updating is accomplished via UDP Port 44600. Please refer to the MultiMerge2 Firmware Update section of this manual for more details the update procedure.

Power Supply – Dual redundant power. Auto-sensing 100-240v, 50-60Hz

PSU 1 / PSU 2 - IEC320 port to connect to AC Mains. The internal power supply is auto switching and will work on 120VAC-60Hz or 240VAC-50Hz electrical power systems with a maximum total current draw of 25W (>.25A 120VAC or >.15A 240VAC).

Please connect MultiMerge2 to a properly grounded uninterruptible power supply (UPS) to protect against power surges and low-voltage conditions. MultiMerge2 may be combined with other devices on the output of the UPS as long as the total load is within the UPS' capacity. Consult your UPS manual for details.

Programming Menu

If AC line power is lost or momentarily interrupted, MultiMerge2 will revert to its previous state.

To enter the programming menu, turn the selection knob in any direction while at the HOME screen. The ENTER key will enter the selected sub menu or enter the value selection mode for the selected option. A press of the BACK key will navigate to the previous menu level or revert the current value to its last stored state.

Menu Functions and Descriptions

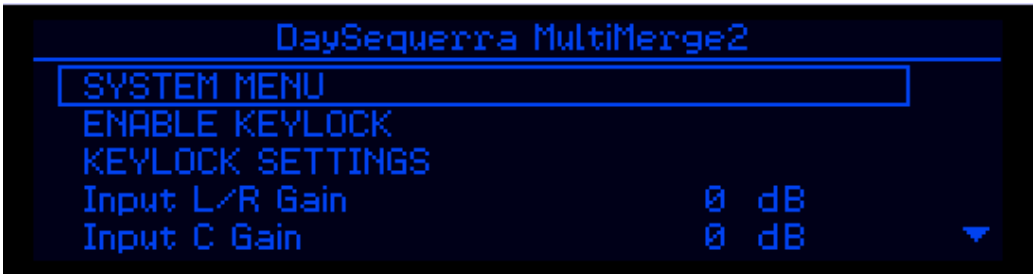


Figure 3. Main Menu Screen Display

The display shown on MultiMerge2 when first entering the menu is demonstrated in Figure 4. From this screen you may navigate to the rest of the menu by selecting SYSTEM MENU. This screen will also display all other readings that MultiMerge2 is generating from measuring the input audio stream. This will include per channel readings for LKFS Measure or dB Ref readings for Neural Loudness Measure, depending on the Loudness Measure that is selected for the appropriate inputs.

System Menu

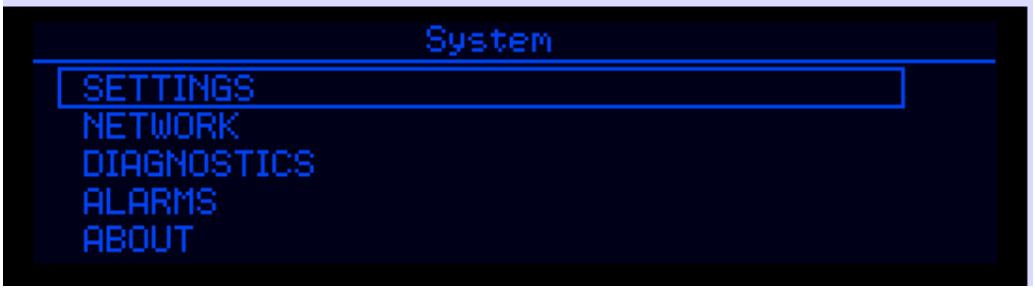


Figure 4. System Menu Screen Display

Navigating to SYSTEM MENU after entering the Main Menu will allow adjustment of all additional values in order to fine tune the operation of your MultiMerge2.

Settings Menu

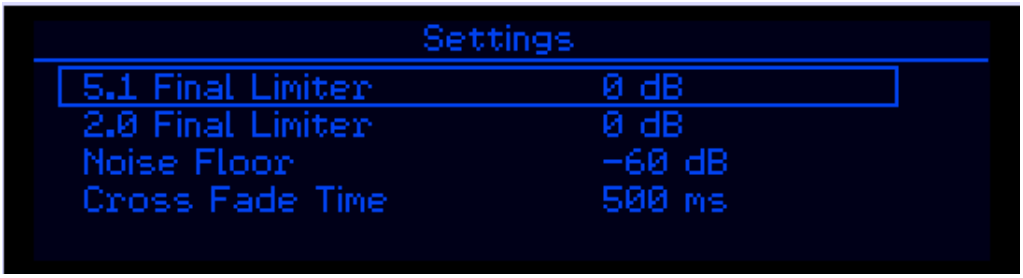


Figure 5. Settings Menu Screen Display

Settings that may be controlled on MultiMerge2:

5.1 Final Limiter: A final limiter is present to control the absolute waveform peak level for the surround output. This parameter controls the output peak level in dBFS

2.0 Final Limiter: A final limiter is present to control the absolute waveform peak level for the stereo output. This parameter controls the output peak level in dBFS

Noise Floor: The Noise floor parameter prevents increasing the noise floor level. Input signals below the threshold are considering too low and are not managed by the loudness processing to avoid bringing up the noise level. Input signals above the Noise Floor are considered valid and are managed by the loudness processing.

Cross Fade Time: Determines the speed at which transitions from UpMix to Passthrough mode occur.

Network Menu

Figure 6. Network Menu Screen Display

The DaySequerra MultiMerge2 has several configurable network settings. All of MultiMerge2's network settings are password protected. The password to change the network settings is "**merge123**". Please take note when entering the password that the MultiMerge2 password is case sensitive. The DaySequerra MultiMerge2 is configured to take a DHCP address by default.

Device Name: Allows you to change MultiMerge2's name as reported to DNS. Press ENTER while the cursor is over this field to go into data entry mode. Turn the knob to scroll through the available choices

of letters (A-Z, 0-9 and _ (underscore)) and press ENTER to move on to the next field. Turning the knob again will start to scroll through the choices for the next letter, or pressing ENTER accepts the name.

DHCP: Configures MultiMerge2 to look for a DHCP server for IP configuration. (Enabled or Disabled)

IP Address: If DHCP is set to disabled, allows you to enter the desired IP address manually. Press ENTER while the cursor is over this field to go into data entry mode. Scroll through the available numbers (0-255) and press ENTER to move to the next octet.

MAC Address: Displays MultiMerge2's MAC address if needed for firewalls or DHCP IP address assignments.

Diagnostics Menu

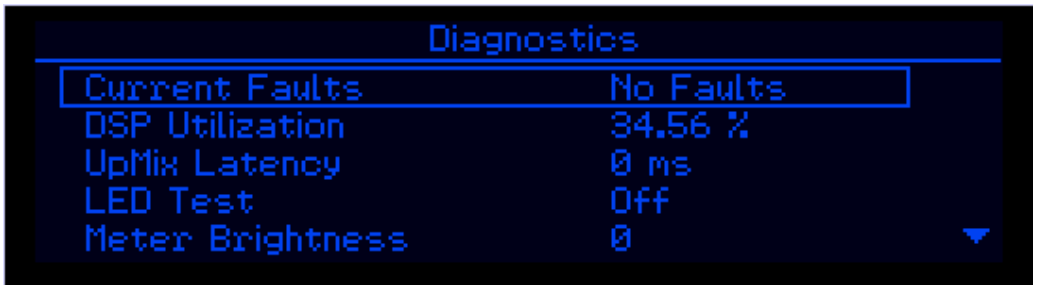


Figure 7. Diagnostics Menu Screen Display

Current Faults: Displays any error states that MultiMerge2 may be in.

DSP Utilization: Shows the current load on MultiMerge2's DSP.

UpMix Latency: The time is takes the algorithm to process audio in UpMix

Meter Brightness: Allows adjustment of MultiMerge2's Input and Output meters.

Display Brightness: Allows adjustment of MultiMerge2's display output.

Restore Settings: Returns all settings to their factory default values and reboots the unit. Network settings will not be lost.

GPIO Test: A sub-menu that turns on the ALARM outputs for testing.

Alarms Menu

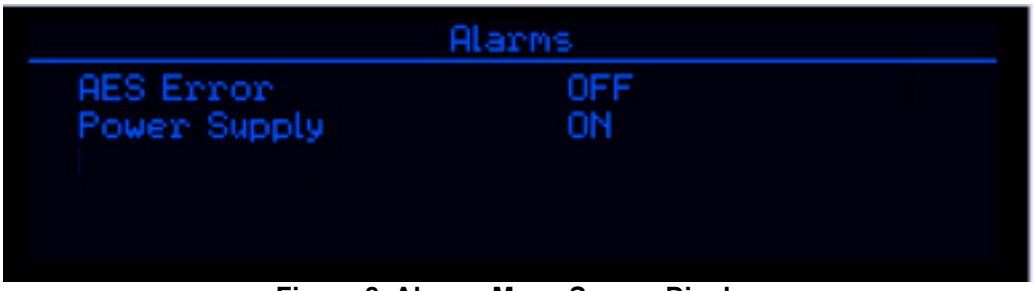


Figure 8. Alarms Menu Screen Display

AES Error: When enabled, Multimerge2 will alert the operator of any AES errors.

Power Supply: When enabled, Multimerge2 will alert the operator if a power supply issue occurs.

About Menu

Model Number: Displays the model number of the unit.

Serial Number: Displays the serial number of this unit.

Hardware Rev: Displays the hardware revision level of this unit.

Firmware Rev: Displays the firmware revision level that is running on this unit.

DTS Algorithm: Displays the specific DTS algorithm running.

DTS Algorithm Rev: Version of the DTS algorithm running on this unit.

Enable Keylock

Selecting Enable Keylock will enable they keylock immediately and exit to the home screen, inhibiting all key or rotary encoder inputs. To disable the keylock, press ENTER followed by the BACK key.

Keylock Settings

Keylock Settings sub-menu will allow for configuration of the keylock timeout setting or disabling the automatic keylock altogether. After the user specified period of inactivity, the keylock will automatically enable. (Default: 15 min)

An error message is displayed if input to the controls is detected while the keylock is enabled

Figure 9. Keylock on Multimerge2

Faults

Although your MultiMerge2 will provide you with years of trouble free service, occasionally problems may occur. Below is a listing of the most common fault conditions.

No Sync: AES sync has been lost. Please check the source equipment and all cable connections. Ensure that MultiMerge2 is operating in the proper input mode for your application and is looking for the source audio on the correct port.

CRC Error: MultiMerge2 has encountered a CRC error in the audio stream. Check that equipment up-stream of MultiMerge2 is properly configured to output the correct audio stream.

Validity Error: MultiMerge2 has encountered a validity error with the audio stream. Check that equipment up-stream of MultiMerge2 is properly configured to output the correct audio stream.

Bi-phase Error: MultiMerge2 has encountered a bi-phase error with the audio stream. Check that equipment up-stream of MultiMerge2 is properly configured to output the correct audio stream.

No Parity Error: MultiMerge2 has encountered a parity error with the audio stream. Check that equipment up-stream of MultiMerge2 is properly configured to output the correct audio stream.

Firmware Update

Provided that you have completed warranty registration for your MultiMerge2 on our website, we will notify you as new firmware updates become available. The notification will contain the announcement of new firmware, issues corrected, and instructions on how to retrieve the update files.

Update packages will be available as a single .ZIP file for download. Compatible archive programs include Winzip (www.winzip.com) or WinRAR (www.rarlabs.com) and may be downloaded from their respective websites. The update package will contain four files; dsp2531.bin, firmdown.exe, readme.txt and update.bat.

Firmware updating is accomplished via UDP Port 44600. At this time, updating is only supported by using a cross-over cable directly connected to one PC. If your PC has multiple network interface adapters, each additional adapter will need to be disabled before attempting to upgrade your unit. You may also wish to disable your firewall during the upgrade process. For additional support with networking, please contact your network administrator.

DO NOT UNPLUG THE UNIT OR TURN OFF YOUR PC WHILE THE FLASH IS IN PROGRESS.
If the flash procedure is interrupted before it can complete, MultiMerge2 may be left in an un-usable state and will need to be returned for factory service.

Please follow these steps to upgrade your unit:

1. Un-Zip the files using a compatible utility that can handle ZIP archive file format into a new empty directory on your PC.
2. Disable any additional network interface adapters present on your PC. Go to Control Panel, then Network Connections. Right click on the adapter to be disabled and select Disable.
3. Unplug your PC from the network it is currently connected to.
4. If your PC's network interface is set up for DHCP, disable it and enter a static IP address. While in Network Connections under Control Panel, right click on the network interface and select Properties. Select "Internet Protocol (TCP/IP)" and press the Properties button. On the general tab of the dialogue box, select "Use the following IP address". Enter an IP address in the box "IP Address" within the local network range. (Example: 192.168.0.1) Click in the "Subnet mask" box and it should auto populate with 255.255.255.0. Select OK to close the dialog, then OK to close the properties box.
5. If MultiMerge2 is set up for DHCP, disable it and enter a static IP address within the local network range. (Example: 192.168.0.2) Details are available in the NETWORK section of this manual.
6. Connect the MultiMerge2 to the PC using a crossover Ethernet cable.
7. When windows has acknowledged the Ethernet connection, you may start the update progress by double clicking on upgrade.bat. MultiMerge2 should download the new firmware and reboot within 15 seconds.
8. Disconnect the cross-over cable and return your PC to its original configuration.

DaySequerra – One Year Limited Warranty

DaySequerra warrants this product to be free from defects in materials and workmanship to its original owner for one (1) year from the date of purchase. DaySequerra will repair or replace such product or part thereof that upon inspection by DaySequerra, is found to be defective in materials or workmanship subject to conditions contained herein.

DaySequerra products are sold worldwide, through a network of authorized DaySequerra dealers and distributors. This Warranty is for the sole benefit of the original purchaser of a DaySequerra product, purchased directly from an authorized DaySequerra dealer or distributor, is restricted to such original purchaser, and shall not be transferred to a subsequent purchaser of the product. Proof of purchase in the form of a bill of sale or receipted invoice substantiating that the product was purchased directly from an authorized DaySequerra dealer or distributor and is within the warranty period must be presented to obtain warranty service. Removal or alteration of the original DaySequerra serial number from a product automatically renders that product warranty null and void.

A Return Authorization Number must be obtained from DaySequerra in advance of return. Parts or product for which replacement is made shall become the property of DaySequerra. The customer shall be responsible for all costs of transportation and insurance to and from the DaySequerra factory, and all such costs will be prepaid.

DaySequerra shall use reasonable efforts to repair or replace any product covered by this limited warranty within thirty days of receipt. In the event repair or replacement shall require more than thirty days, DaySequerra shall notify the customer accordingly. DaySequerra reserves the right to replace any product that has been discontinued from its product line with a new product of comparable value and function.

This warranty shall be void in the event a covered product has been damaged, or failure is caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, or lightning, power fluctuations and other incidental or environmental conditions. Further, product malfunction or deterioration due to normal wear is not covered by this warranty.

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